

IN THE CLAIMS

1. (currently amended): An electrophotographic apparatus having a resolution of at least 1200 dpi that comprises a cylindrical electrophotographic photoreceptor having a charge generation layer and a charge transport layer, and electrophotographic processing components disposed in the vicinity of a peripheral surface of said photoreceptor, the apparatus forming images by operation of the processing components while rotating said photoreceptor;

the apparatus comprising means for rotating the cylindrical electrophotographic photoreceptor at predetermined peripheral speed V in mm/sec;

wherein following relationships (1) and (2) hold among the peripheral speed V in mm/sec of said photoreceptor, ~~[[the]]~~ a contact angle A in degrees of the surface of said photoreceptor to pure water, and ~~[[the]]~~ a thickness T in μm of said charge transport layer of said photoreceptor :
~~[[.]]~~

$$V^{0.1} \times A \times T^{0.2} < 270 \quad (1)$$

$$T > 25 \quad (2) \quad \text{[[.]]}$$

whereby images of high resolution can be obtained with high printing wear resistance even if the photoreceptor has a charge transport layer thickness exceeding 25 μm .

2. (canceled)

3. (new): A method of forming images, comprising:
providing a cylindrical electrophotographic photoreceptor for use as part of the electrophotographic apparatus, the photoreceptor including
a charge generation layer,
a charge transport layer having a thickness T, in μm , and
a peripheral surface having a contact angle A, in degrees, to pure water;
rotating said photoreceptor, at a peripheral speed V in mm/sec, in an apparatus having a resolution of at least 1200 dpi, the apparatus further including electrophotographic processing

components disposed in a vicinity of the peripheral surface of the photoreceptor, the apparatus forming images by operation of the processing components during rotation of said photoreceptor; and

maintaining relationships (1) and (2) among the peripheral speed V in mm/sec of the photoreceptor, the contact angle A in degrees of the surface of said photoreceptor to pure water, and the thickness T in μm of said charge transport layer of said photoreceptor :

$$V^{0.1} \times A \times T^{0.2} < 270 \quad (1)$$

$$T > 25 \quad (2);$$

whereby images of high resolution can be obtained with high printing wear resistance even if the photoreceptor has a charge transport layer thickness exceeding 25 μm .

4.-(new): The electrophotographic apparatus according to claim 1, wherein the predetermined peripheral speed is 45 mm/sec.

5. (new): The electrophotographic apparatus according to claim 1, wherein the predetermined peripheral speed is 68 mm/sec.

6. (new): The electrophotographic apparatus according to claim 1, wherein the predetermined peripheral speed is 92 mm/sec.

7. (new): The electrophotographic apparatus according to claim 1, wherein the predetermined peripheral speed is 114 mm/sec.

8. (new): The method according to claim 3, wherein the predetermined peripheral speed is 45 mm/sec.

9. (new): The method according to claim 3, wherein the predetermined peripheral speed is 68 mm/sec.

10. (new): The method according to claim 3, wherein the predetermined peripheral speed is 92 mm/sec.

11. (new): The method according to claim 3, wherein the predetermined peripheral speed is 114 mm/sec.